



# Forest Insect & Disease Management

Report No. 80-3-9  
Issued on: 3-17-80

AERIAL DETECTION SURVEY OF SOUTHERN PINE  
BEETLE ACTIVITY, DEPARTMENT OF THE NAVY,  
CAMP LEJEUNE MILITARY RESERVATION, NORTH  
CAROLINA

---

LAND OWNERSHIP OR SURVEY AREA: Department of the Navy, Camp  
LeJeune Military Reservation

STATE: North Carolina

AREA WITHIN SURVEY BOUNDARY: 102,800 acres

DATE: February 20, 1980

PERCENT COVERAGE: 100%

AIRCRAFT: Aero Commander 650

CREW: W.A. Carothers, Robert F. Bassett, Peter Black (Asst.  
Base Forester)

REPORT PREPARED BY: W.A. Carothers

## SURVEY OBJECTIVES

To detect the presence of southern pine beetle infestation  
and to accurately map the location of these infestations.

## SURVEY RESULTS

One hundred sixty-two suspected southern pine beetle spots  
were observed and their locations mapped. The sizes of these  
spots ranged from 1-75 trees (Refer to Table 1). Spots were  
scattered throughout the military reservation but the heaviest  
concentrations of spots were observed east and west of Farnell's  
Bay (Refer to map).

## CONCLUSIONS

A ground evaluation of the spots located during this aerial  
detection survey is in progress. Personnel from the Asheville  
and Doraville Field Offices and members of Camp LeJeune's forestry  
staff are conducting this evaluation. Special attention is being  
paid to infestations in or near colonies of red cockaded wood-  
peckers. If possible, the integrity of established colonies will  
be protected.

SOUTHEASTERN AREA, STATE & PRIVATE FORESTRY  
USDA FOREST SERVICE, ATLANTA, GA 30305

Historically, the coastal plain of North Carolina has suffered significant timber losses due to southern pine beetle epidemics. The last outbreak occurred during the period, 1973-1975. A drastic increase in southern pine beetle activity occurred in many areas throughout the South during 1979. The results of the ground evaluation will indicate the potential problem which the current SPB infestations pose for Camp LeJeune. Following the evaluation, recommendations for the need of suppression activities will be made.

---

For any additional information, contact:

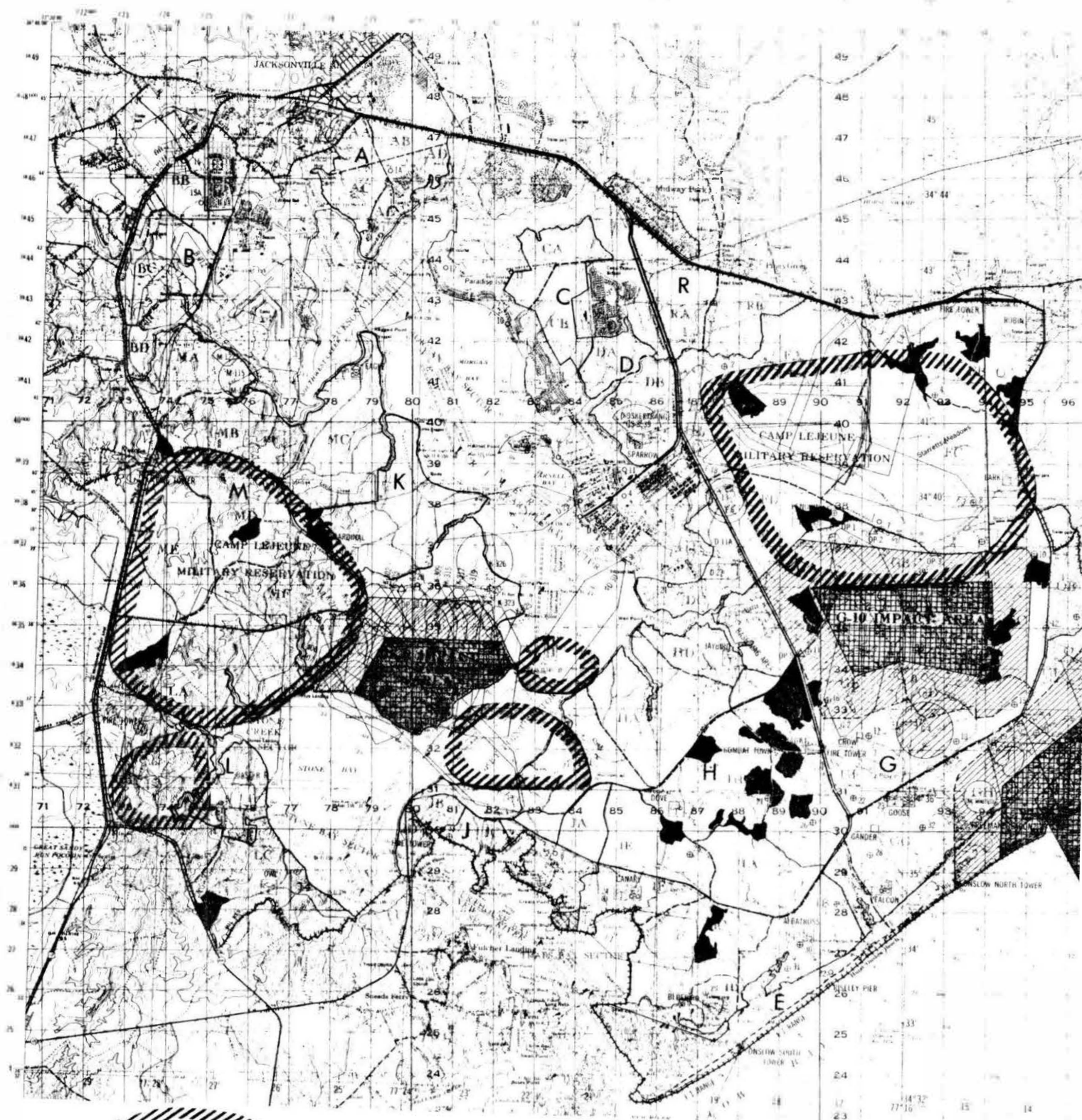
USDA Forest Service FIDM  
Northgate Office Park, Room 2103    or  
3620 Interstate 85, N.E.  
Doraville, GA 30340  
Telephone: 404/221-4796

USDA Forest Service FIDM  
P.O. Box 5895  
Asheville, NC 28803  
Telephone: 704/258-2850  
Ext. 625

Table 1. Number of Spots and Number of Total Affected Trees by Size Category.

	Size Category (number of trees)				
	1-10	11-25	26-50	51-100	101+
Number of spots	135	8	18	1	0
Total number of affected trees	346	150	770	75	0

# SOUNDINGS IN METERS



Boundaries of areas with the heaviest concentration of southern pine beetle infestation.